High Speed Dome

User Manual

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Preface

All safety and operation instructions should be read and followed before operating the unit. Retain instructions for future reference.

Heed Warnings - Adhere to all warnings on the unit and in the operating instructions.

Installation Cautions - Do not place this unit on an unstable stand, tripod, bracket, or mount. The unit may fall, causing serious injury to a person and serious damage to the unit.

Cleaning - Unplug the unit from the outlet before cleaning. Follow any instructions provided with the unit. Generally, using a damp cloth for cleaning is sufficient. Do not use liquid cleaners or aerosol cleaners to protect unit from liquid has been spilled or an object has fallen into it.

Don't please mount the unit on the unstable bracket, wall or ceiling to avoid accidence happening.

Service- Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personal.

No matter camera is on or under working, never to expose the camera to sun light or strong illuminate object otherwise the permanent damage will be caused to its CCD.

Please don't repair unit parts optionally when it is wrong. First referring to operation instruction to find out defect or call for the qualified service personnel authorized by our company.

The equipment can't endure big shock or placed on the vibrating platform.

This equipment shouldn't be exposed in the moisture in the long run or in the surrounding full of incentive or caustic gas.

CHAPTER 1: GENERAL INFORMATION

Intelligent speed dome camera gives you a comprehensive view that you simply can't get from a fixed camera. Our technology delivers the details of your target, zooming in or out in less than a second to capture the image you need. Zoom-Adjusted Programming (ZAP) lets you pan, tilt and zoom in every direction, automatically adjusting the pan and tilt speed in proportion to the zoom so that you don't have to. Additional features like Pattern, Group and Swing enable you to conduct a virtual patrol of your facility whether or not someone is manning the controls. Auto-focus with manual override renders a clear picture every time. From the most distant corner of a parking garage to the maze of hallways throughout a building, our speed dome cameras will take you everywhere you need to see.

Camera Specification

CCD Sensor: 1/4" Sony Super HAD or Exview CCD

Zoom Ratio: 27X or 18X optical zoom 10X or 12X digital zoom

Powerful Pan/Tilt Functions

Max. 400/sec high speed Pan/Tilt Motion.

Using Vector Drive Technology, Pan/Tilt motions are accomplished in a shortest path. As a result, time to target view is reduced dramatically and the video on the monitor is very natural to watch.

For jog operation using a controller, since ultra slow speed 0.05/sec can be reached, it is very easy to locate camera to desired target view.

Preset, Pattern, Swing, Privacy Mask, Group Functions and More

Max. 128 sets of position and zoom magnification are designated and stored as Presets. For each Preset,additional information such as Dwell time (pause time in Group action when camera reaches to a certain Preset position), Alarm action and area Label can be assigned independently to meet to your requirements.

Max. 8 set of Swing action can be stored. This enables to move camera repetitively between two preset positions with designated speed.

Max. 4 of Patterns can be recorded and played back. This enables to move camera to follow any actions operated by joystick as closely as possible.

Max. 8 set of Group action can be stored. This enables to move camera repetitively with combination of Preset or Pattern or Swing. A Group is composed of max. 20 entities of Preset/Pattern/Swings.

Max. 8 of Privacy masks can be located wherever it is required to protect private life.

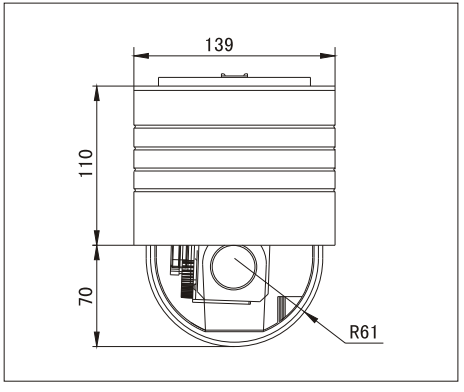
PTZ Control

With RS-485 communication, max. 255 of cameras can be controlled at the same time

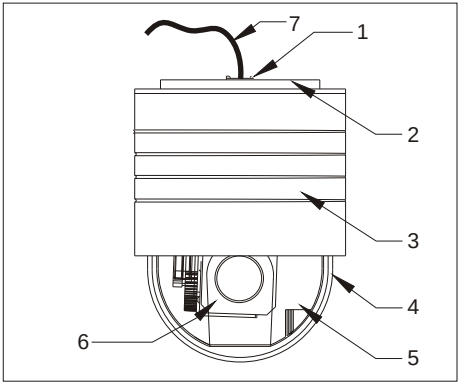
CHAPTER 2: SPECIFICATIONS

2.1 Indoor speed dome camera configuration

Product Photo



Indoor Speed Dome Dimension



1. Rj45 Jack
2. Mount Base
3. Dome Housing
4. Dome Cover
5. Black Shield
6. Zoom Camera
7. Rj45 cable

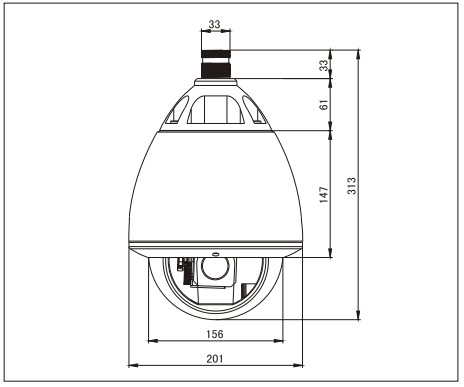
2.2 Indoor Speed Dome Specifications

Type					
Zoom module			CNB 22X color	SONY 18X color	SONY 18X Day/night
Camera	Sensor		1/4"Super Had CCD	1/4"Super Had CCD	1/4"IT EXVIEW CCD
	Resolution		480 Lines		
	S/N		＞48dB		
	Zoom Ratio		Optical 22X，Digital10X	Optical 18X，Digital12X	Optical 18X，Digital 12X
	Focal Length		f=3.9-85.8mm	f=4.1-73.8mm	f=4.1-73.8mm
	Illumination		0.5Lux	0.7Lux	0.002Lux（Day/Night Mode）
	Day/Night		No	No	Yes
	Focus		Auto/Manual		
	Iris		Auto		
	White Balance		Auto		
	BLC		ON / OFF		
	AGC		ON		
P/T	Range		Pan 360°Continuous，Tilt 90°		
	Speed	Preset	400°/sec		
		Manual	0.1°～180°/sec		
		Swing	15°～60°/sec		

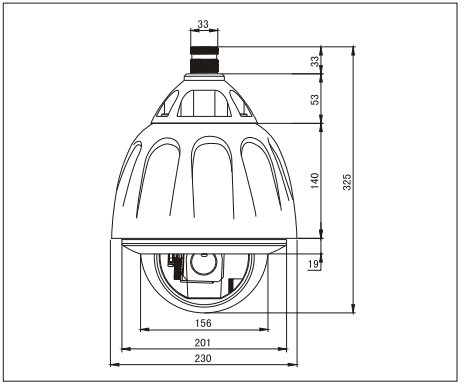
P/T	Preset	128
	Pattern	4 Patterns and each 1 minute
	Swing	8
	Group	8Groups and each with 20 action like preset,pattern and swing.
	Communication	RS-485，Max 255 Camera ID
	Protocol	Pelco-D、Pelco-P
	Baud Rate	2400bps、4800bps、9600bps
	Privacy Mask	8
	Alarm	8Input/4Output（Optional）
	OSD	Programmable OSD for Pan/Tilt,Zoom Camer,Pattern etc. setting
	Blower/Heater	No
	Temperature	0°C+50°C
	Moisture	⩽95%
	Power Suplly	110-240VAC Input/12V DC Output
	Consumption	20W
	Dimension	215mm（L）×175mm（W）×235（H）

3.Outdoor Speed Dome configuration

Product Photo



Outdoor speed dome dimension



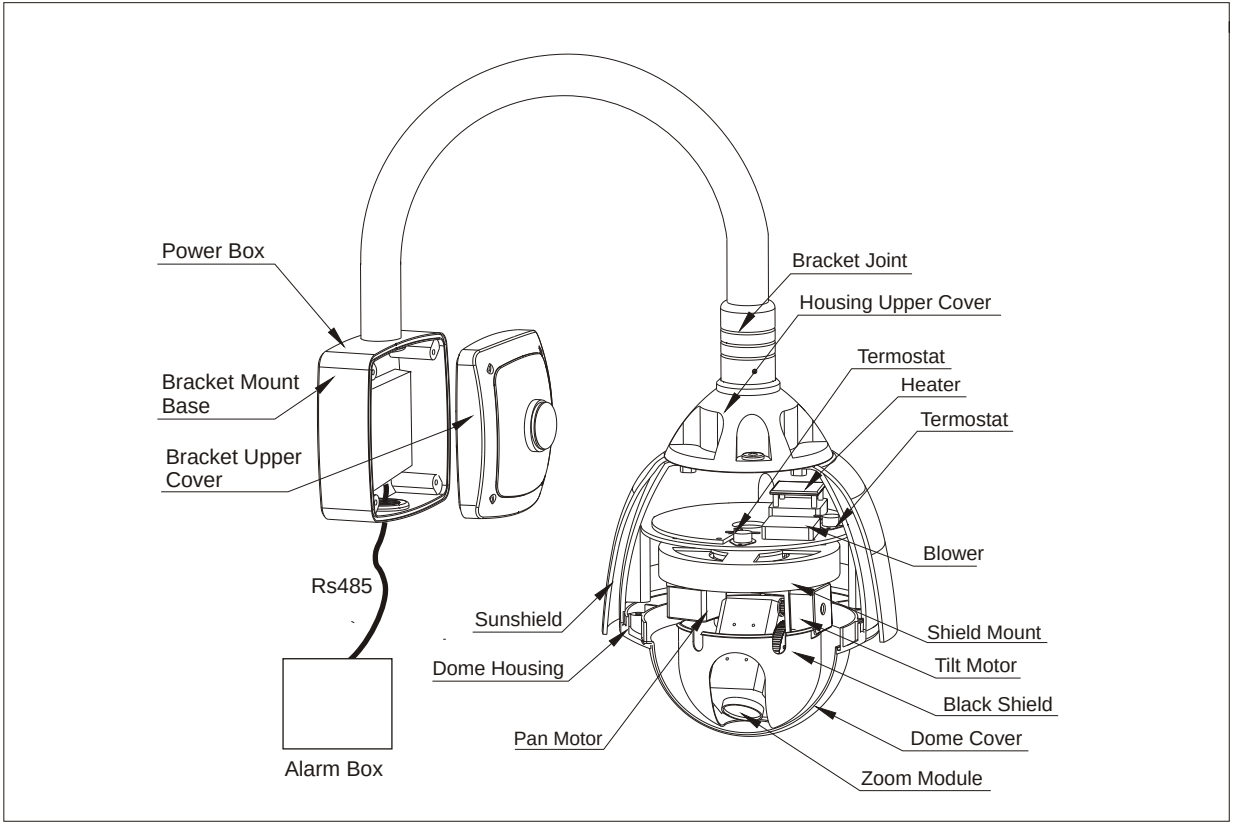
Outdoor speed dome dimension
(with Sunshield)

3.1 Outdoor speed dome specification

Type				
Zoom moudle			LG 27X Day/night	SONY 18X Day/night
Camera	Sensor		1/4"Super Had CCD	1/4"IT EXVIEW CCD
	Resolution		480Lines	
	S/N		＞48dB	
	Zoom module		27X Digital10X	Optical18X，Digital12X
	Focal Length		f＝3.25-88mm	f＝4.1-73.8mm
	Illumination		0.01Lux	0.002Lux（Day/Night mode）
	Day/Night		Yes	
	Focus		Auto/Manual	
	Iris		Auto	
	White Balance		Auto	
	BLC		ON／OFF	
	AGC		ON	
P/T	Range		Pan 360°Continuous，Pan90°	
	Speed	Preset	400°/sec	
		Manual	0.1°～180°/sec	
		Swing	15°～60°/sec	

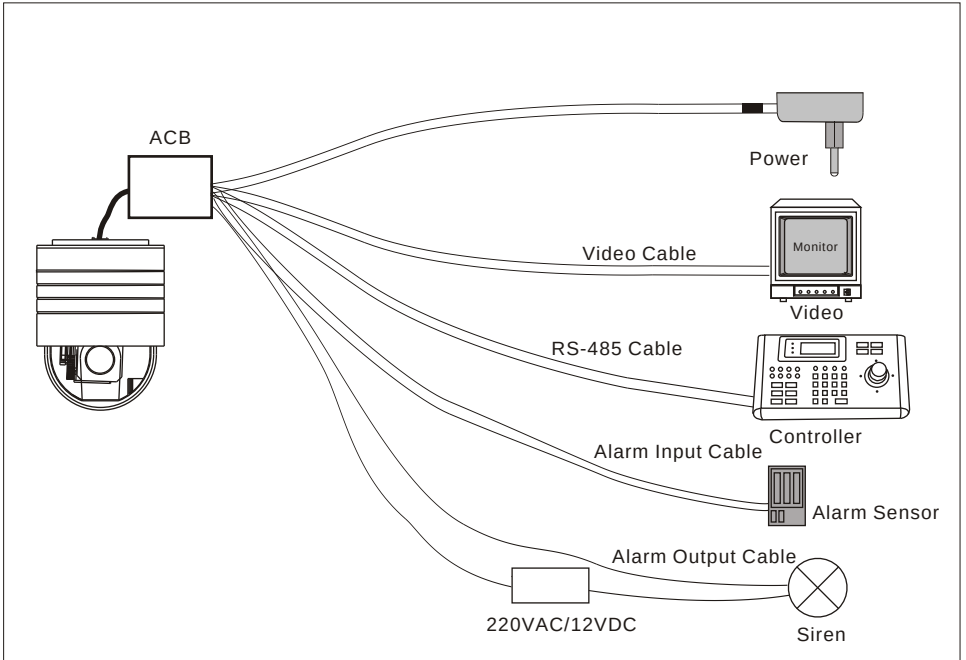
P/T	Preset	128
	Pattern	4patterns and each 1 minute
	Swing	8
	Group	8Groups and each with 20 actions,like preset,pattern and swing
	Communication	RS-485，Max 255 Camera ID
	Protocol	Pelco-D、Pelco-P
	Baud Rate	2400bps、4800bps、9600bps
	Privacy Mask	8
	Alarm	8Input/4Output（Optional）
	OSD	Programmable OSD for Pan/Tilt, Zoom Camera,pattern etc .
	Blower/Heater	Built in
	Temperature	-35°C+50°C
	Moisture	⩽95%
	Power Supply	110-240VAC Input/12V DC Output
	Consumption	20W
	Package Dimension	215mm（L）×175mm（W）×235（H）

3.2 Outdoor speed dome profile Chart



CHAPTER 3:Alarm Board connection

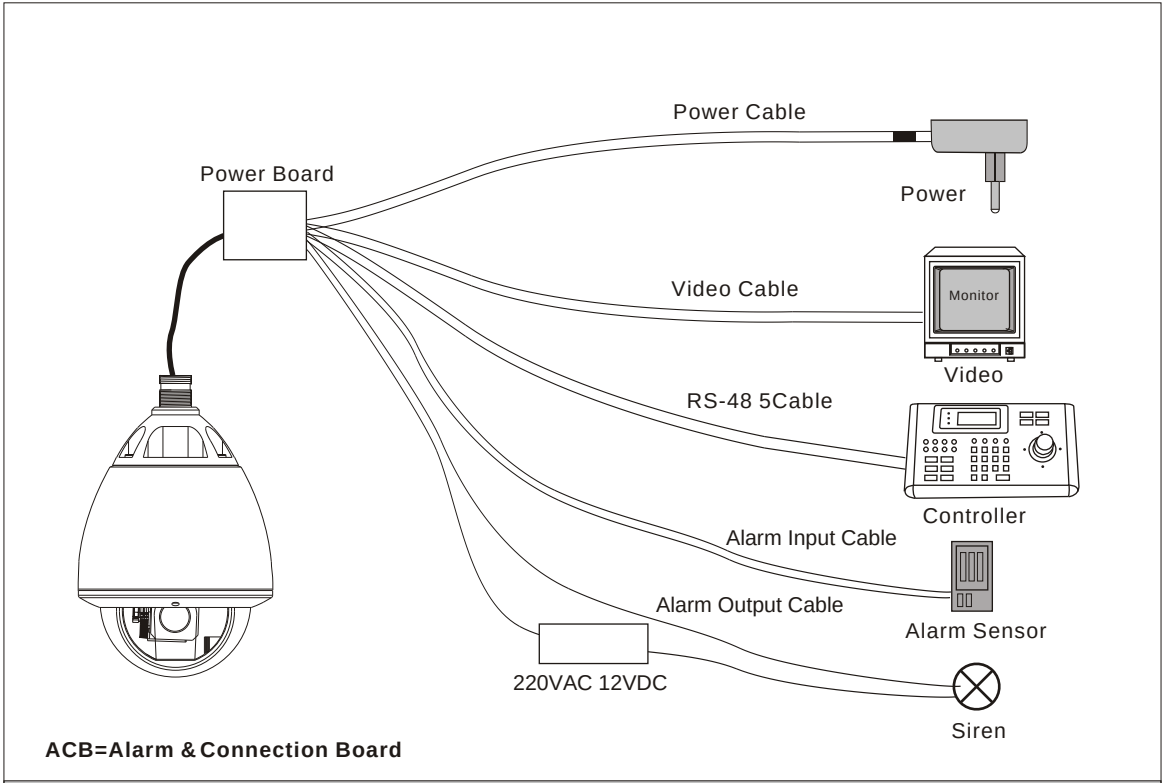
Alarm Board connection



ACB=Alarm & Connection Board

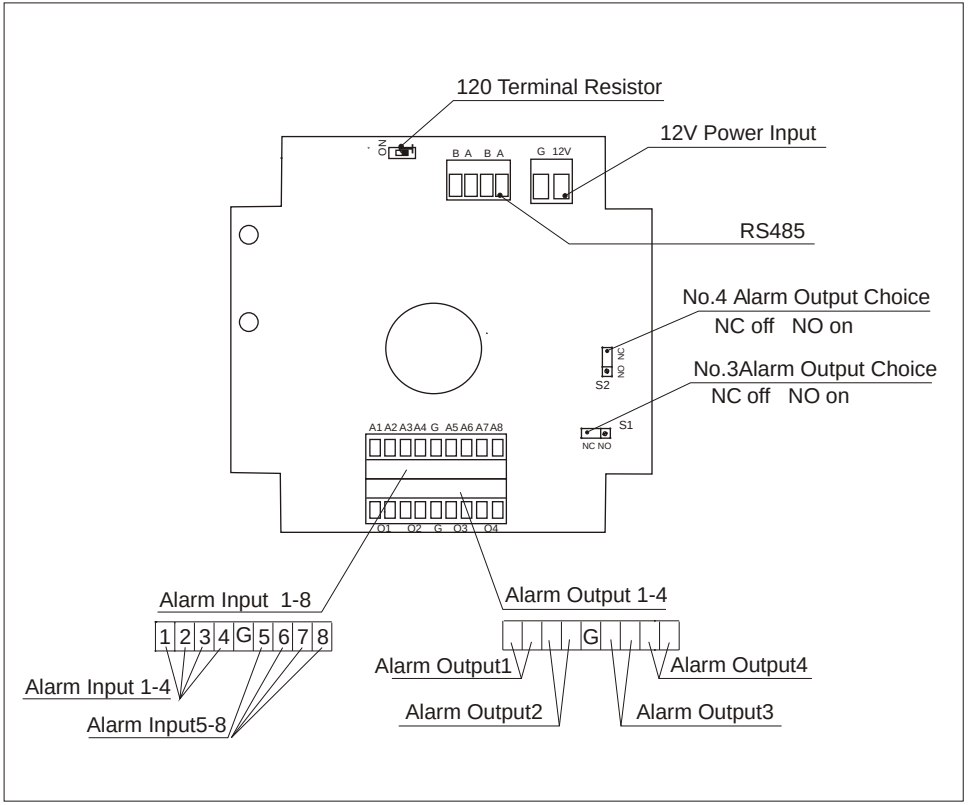
Alarm Board connection Drawing

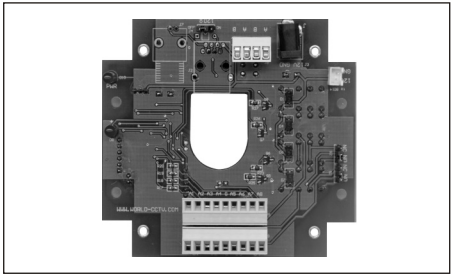
Alarm Board Connection Chart:



Alarm Board Connection Chart

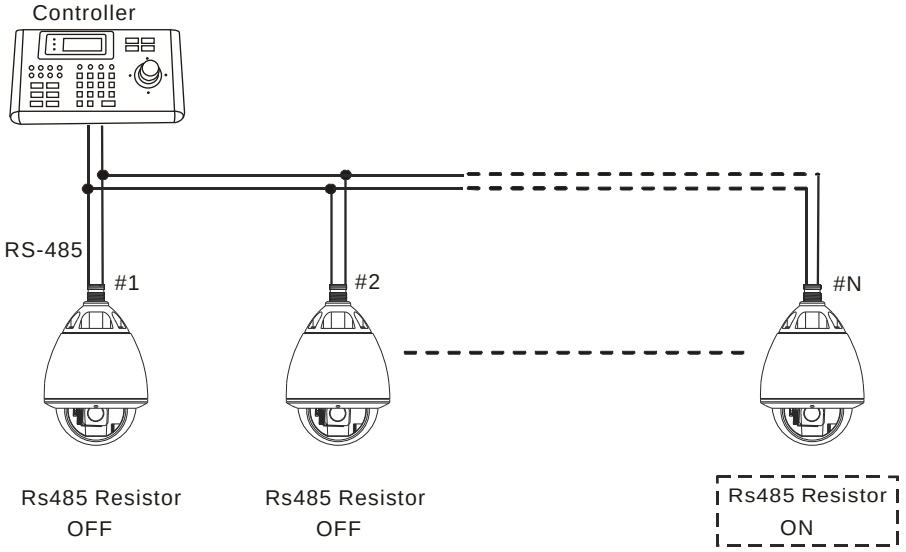
Alarm Board Connection (ACB)



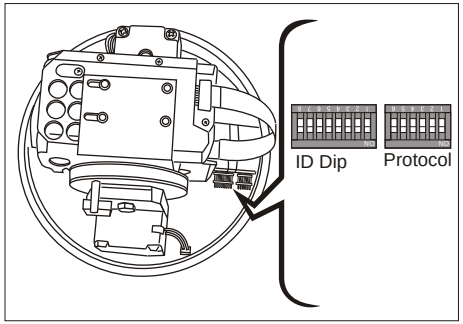


.RS-485 Resistor:

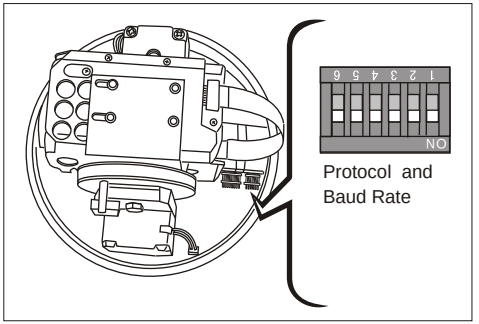
Jumper switch of terminal resistor is on the Alarm and Connection Board(ACB).
Just simply make it on "on" state for the last one camera.



CHAPTER 4:PROTOCOL AND CAMERA ID SETTING

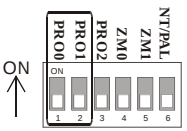


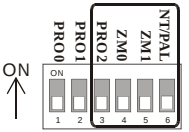
Before you install the camera, you should set the DIP switches on the PCB to configure the camera ID and communication protocol. There are 2 DIP switches on the PCB,positions shown as above.



Protocol and Baud Rate Setting

◆ **Protocol Setting**





Reserved

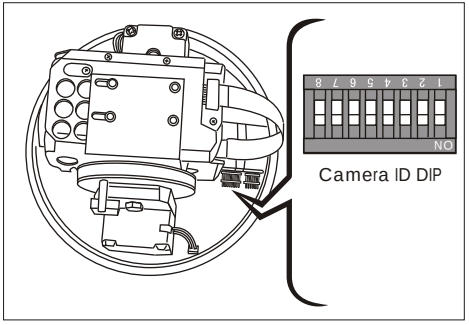
Switch State		Protocol/Baud
PRO0 (Pin1)	**PRO1** (Pin2)	
OFF	OFF	PELCO-D, 2400 bps
ON	OFF	PELCO-D, 9600 bps
OFF	ON	PELCO-P,4800 bps
ON	ON	PELCO-P,9600 bps

◆ **Protocol Setting**

Notice

- ◆ Factory default protocol is PELCO-D, Baud Rate is 2400bits/sec,
- ◆ Please confirm if the DIP reach the signated position.

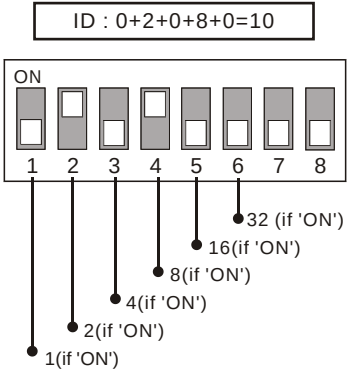
Camera ID DIP setting



When you want to operate the camera. The Camera ID in this DIP switch setting must be indential to the camera ID of the controller.If you have multiple cameras, it is recommended to memorize the camera IDs and location

Camera ID Setting

By changing the DIP switch, you can set the binary number for camera ID.
ON state of switch means '1' and OFF means '0'.
Ex) If you want to set camera ID as 10.



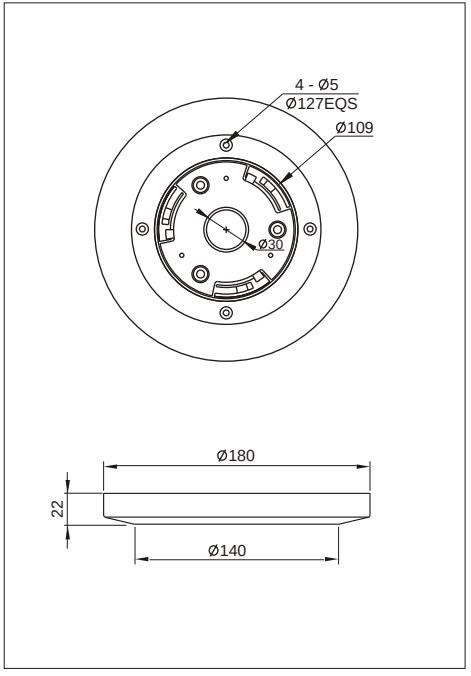
1. You can assign camera ID in the rage 1~255. Do not use ID '0'.
2. Factory default of Camera ID is '1'.

5.1 Intallation Notice:

1. Installation and operation should be executed by qualified service personnel or designated personnel under the condition adapting to the local regulation.
2. Be careful and not leave finger print on the clear housing, that will affect the picture quality.
3. Please clean the dome cover to get good quality picture using soft cloth when you find the picture is getting dim.

5.2 Indoor speed dome Installation

A.Ceiling Mount

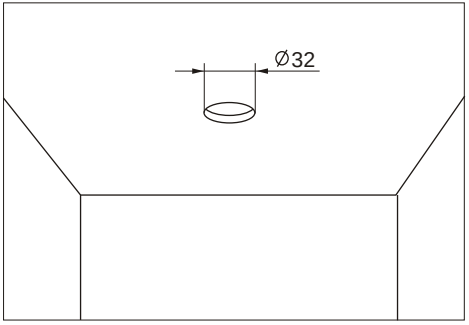


Notice

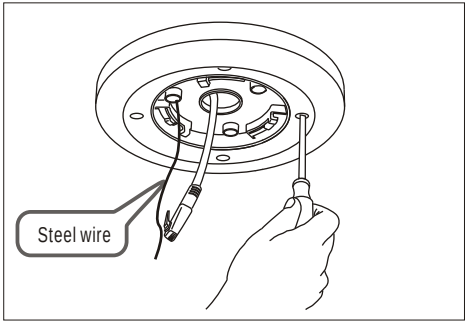
CAUTION: Mounts must be properly and securely installed on a supporting structure capable of sustaining the unit weight. The mounting surface and the unit's weight should be carefully considered

Notice

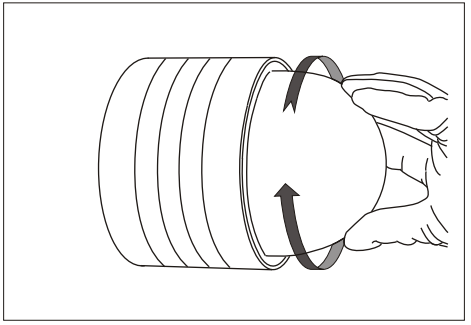
Before install, please wear attached white glove to avoid blur or pull dome cover so as to effect quality of picture.



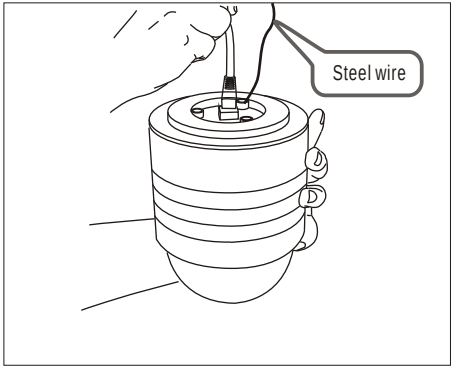
1. For cabling,make a hole sized ablout 32mm on the celing.



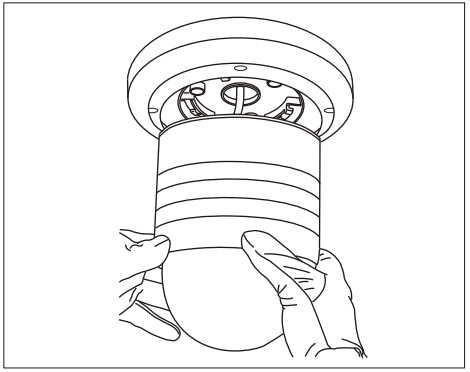
2.If necessary, use a wood board to strengthen the ceiling and fix the ceiling mount onto the surface of the ceiling using the screws included.



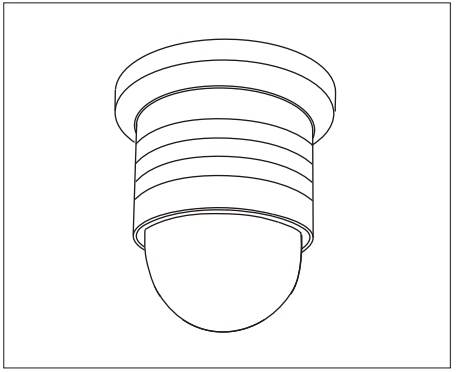
3. Take off the dome cover by turning anticlockwise and set up the camera ID and protocol.



4.After finishing the cabling on the Alarm and Connection board, plug the RJ45 terminal into the RJ45 Jack on the camera mount base. (Refer to the ACB connection chart)

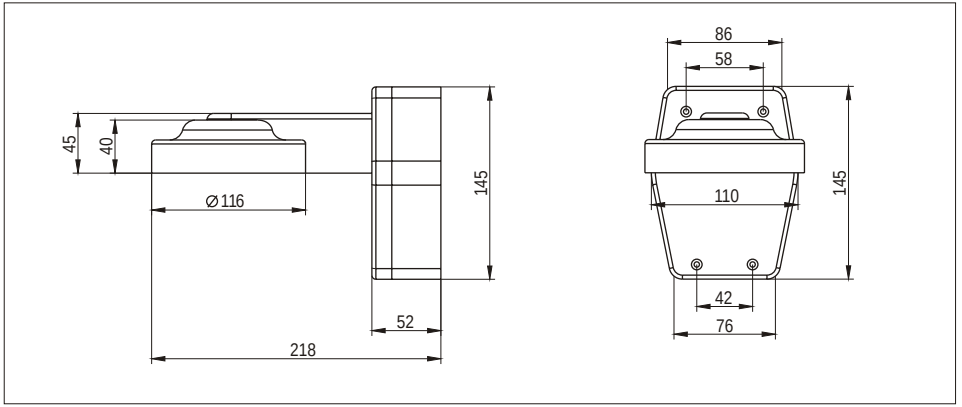


5. Wearing the glove and holding the camera body, aim the 3 mounting clips on the mount base at the 3 slots on the ceiling bracket. Twist the camera clockwise and it will be fixed onto the bracket after a " click" is sounded.



6. Recover the dome cover and finish the installation.

B.Wall Mount

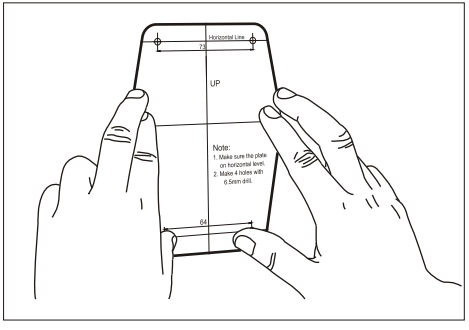


Notice

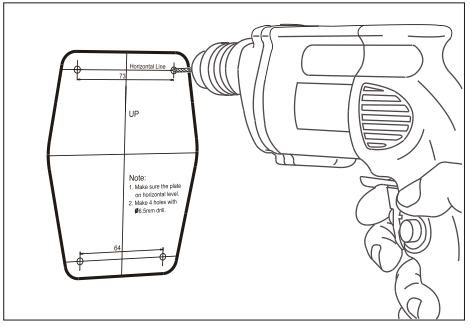
The position must firm and endure more than 5 time weight of camera and mount bracket, otherwise the quiver picture will be caused.

Notice

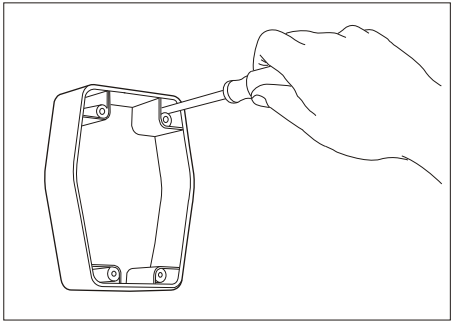
Before install, please wear attached white glove to avoid blur or pull dome cover so as to effect quality of picture.



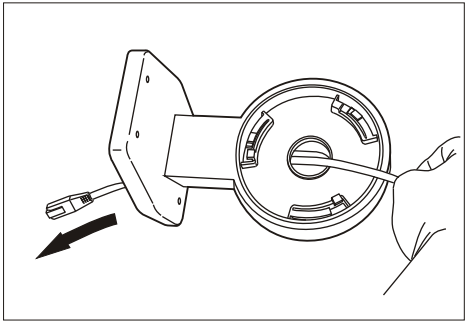
1. Stick the Position-Paster onto the wall



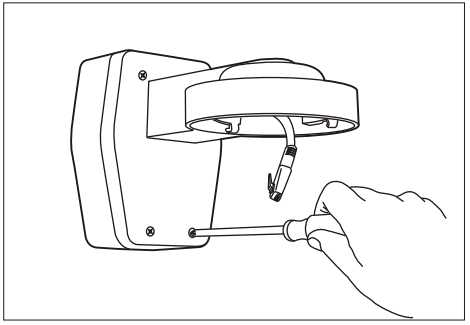
2.Drill the mounting holes



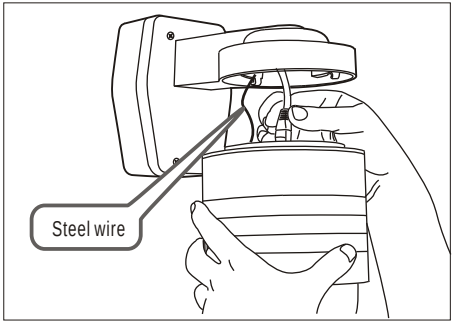
3. Fix the bracket base onto the wall using the screws included.



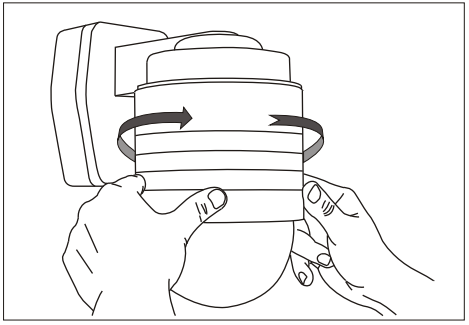
4.Pass the RJ45 cable through the bracket.



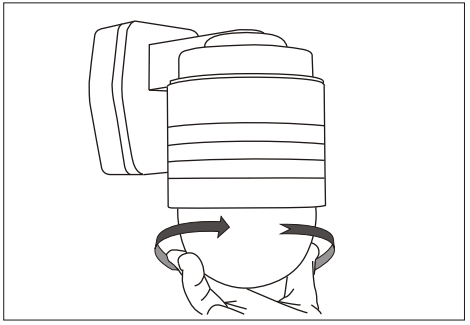
5. After finishing the cabling on the Alarm and Connection board,(Refer to the ACB connection chart) fix the bracket.



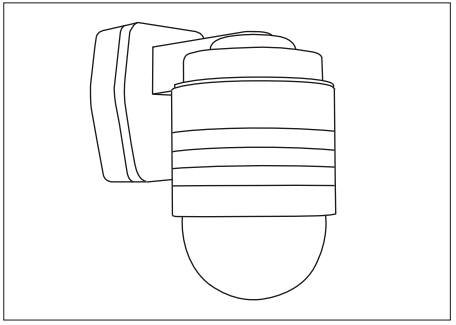
6. Plug the RJ45 cable into the RJ45 Jack on the camera mounting base.



7. Wearing the glove and holding the camera body, aim the 3 mounting clips on the mount base at the 3 slots on the ceiling bracket. Twist the camera clockwise and it will be fixed onto the bracket after a click is sounded



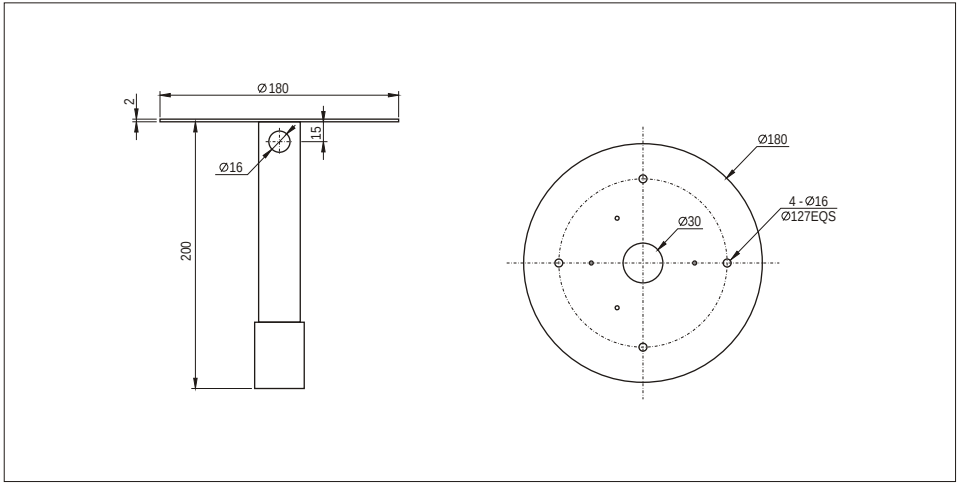
8. Take off the dome cover by turning anticlockwise and set up the camera ID and protocol. Recover the dome cover and finish the installation



9. Finished installation.

C.Pendent mount

Indoor speed dome pendent bracket dimension

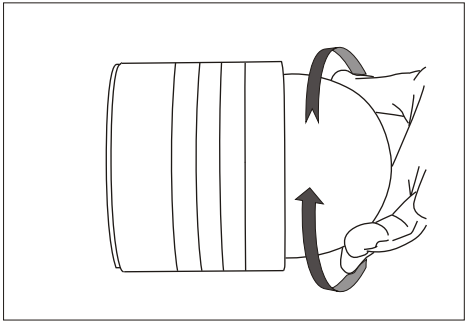


Notice

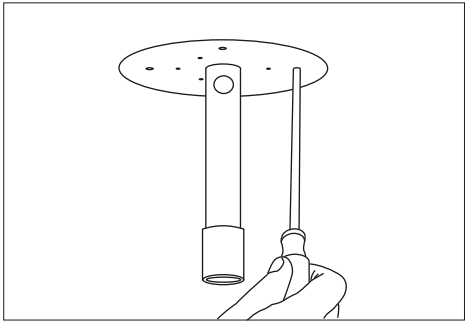
CAUTION: Mounts must be properly and securely installed on a supporting str ucture capable of sustaining the unit weight. The mounting surface and the unit's weight should be carefully considered

Notice

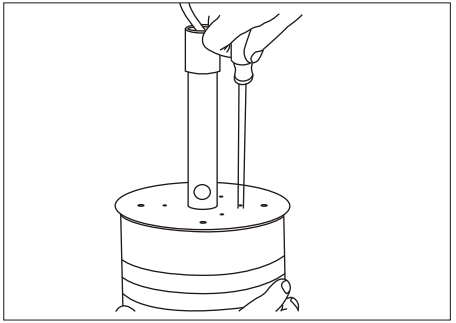
Before install, please wear attached white glove to avoid blur or pull dome cover so as to effect quality of picture.



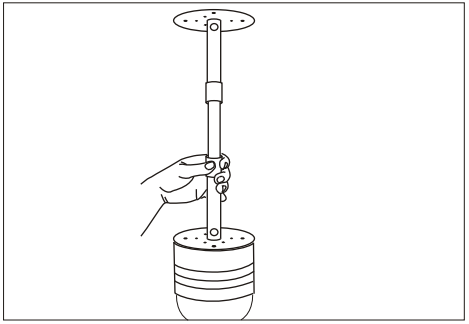
1. Take off the dome cover by turning anticlockwise and set up the camera ID and protocol. Recover the dome cover and finish the installation.



2. Fix the bracket bottom onto the ceiling surface

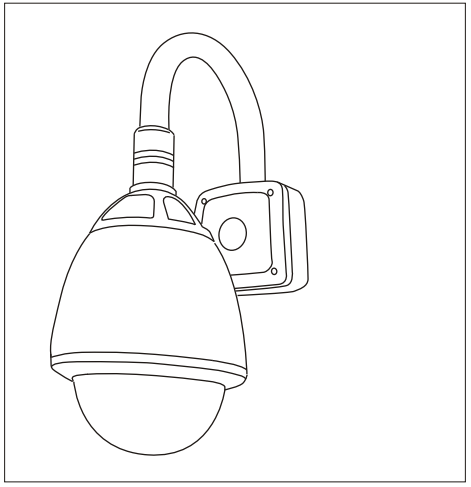


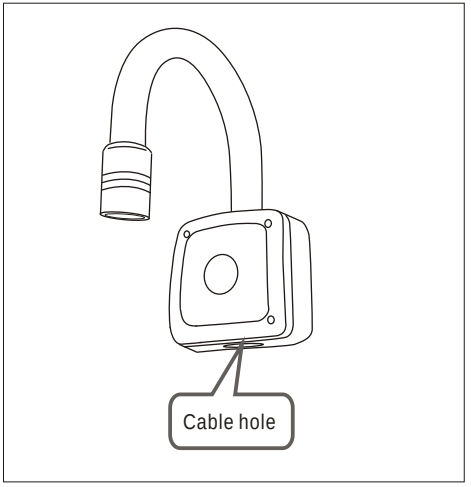
3. Connect all the external cable and fix the dome

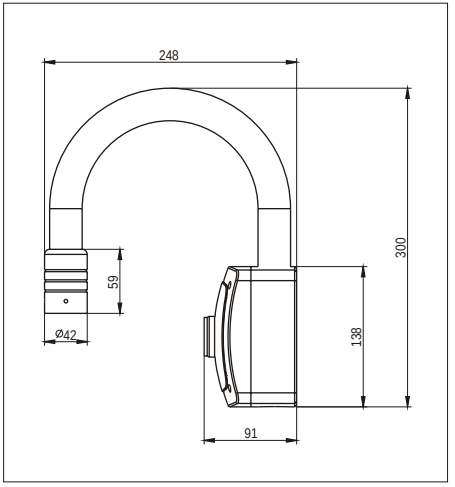


4. Use the extension pole to adjust the length.

5.3 Outdoor Speed Dome Installation







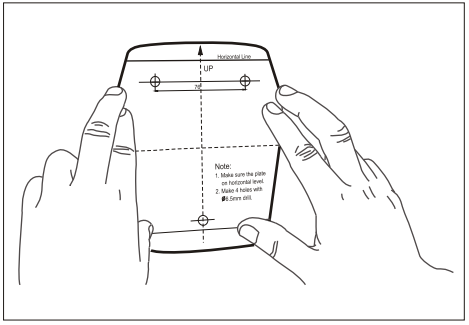
Outdoor speed dome wall bracket dimension.

Notice

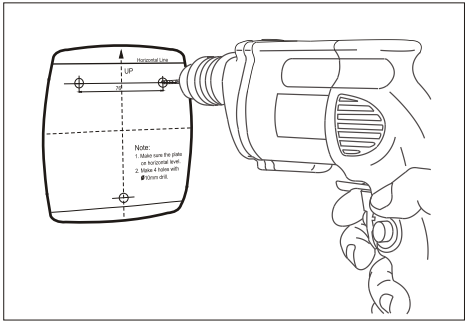
The position must firm and endure more than 5 time weight of camera and mount bracket, otherwise the quiver picture will be caused.

Notice

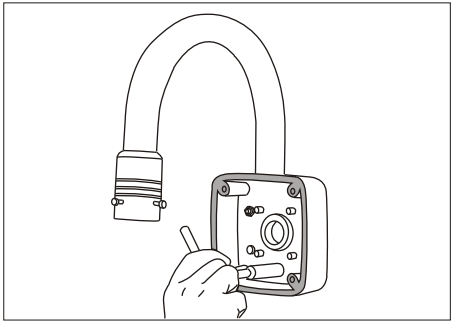
Before install, please wear attached white glove to avoid blur or pull dome cover so as to effect quality of picture.



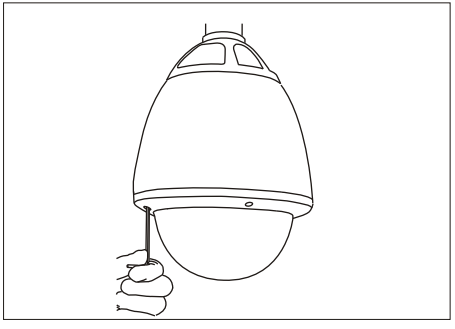
1. Stick the Position-Paster onto the wall



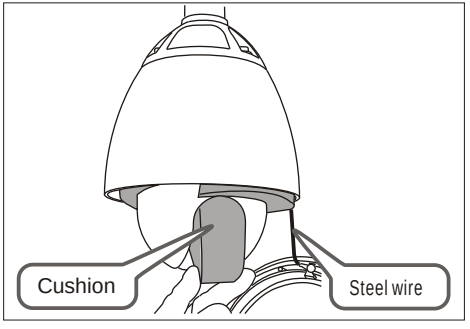
2. Drill the mounting holes



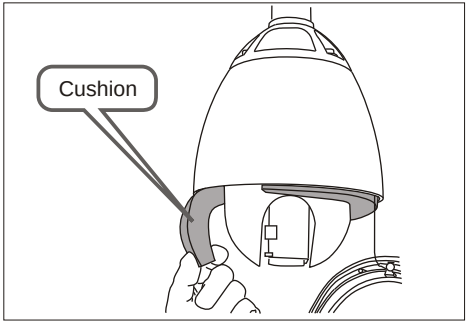
3. Fix the bracket onto the wall with tools included



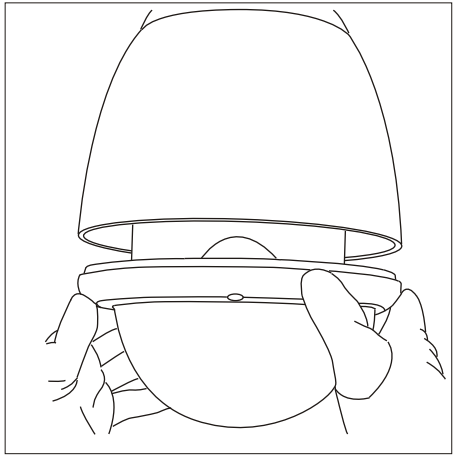
4. Wearing the glove, take off the dome cover



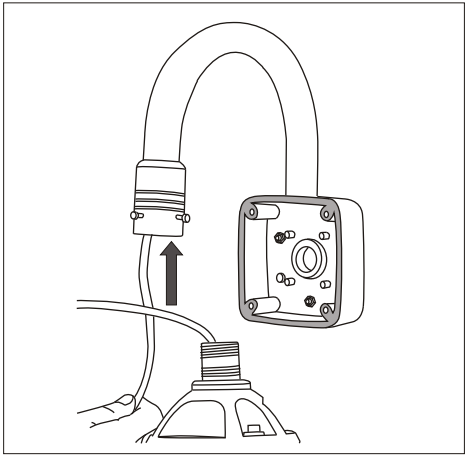
5. Take the camera protection cushion out of the camera.



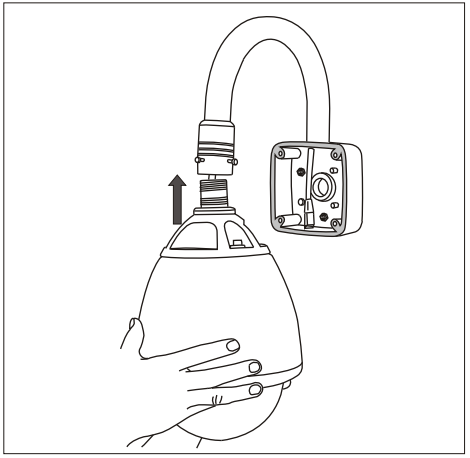
6. Take off the black shield and set up camera ID and Protocol



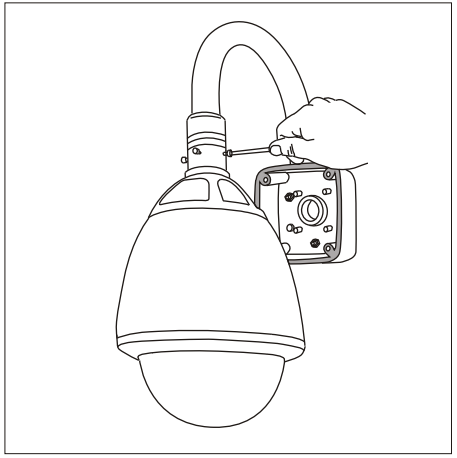
7. Recover the black shield and the dome cover.



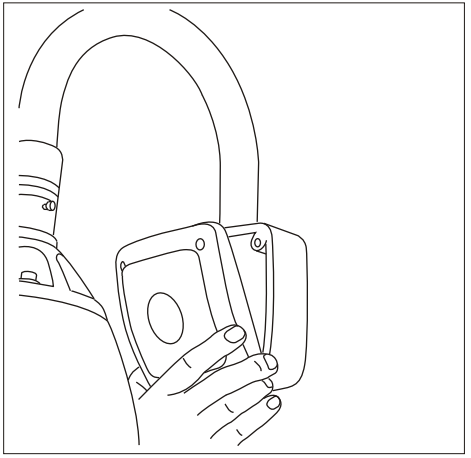
8. Pass the RJ45 cable through the bracket



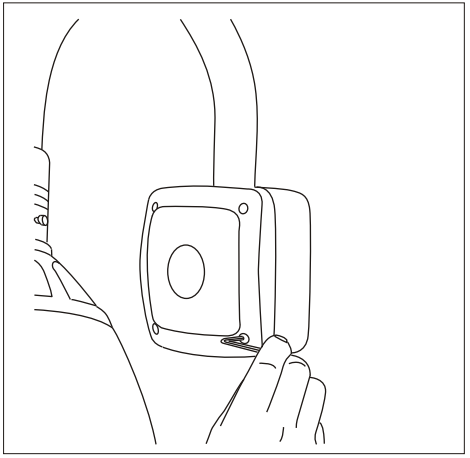
9. Put the camera into the wall mount bracket



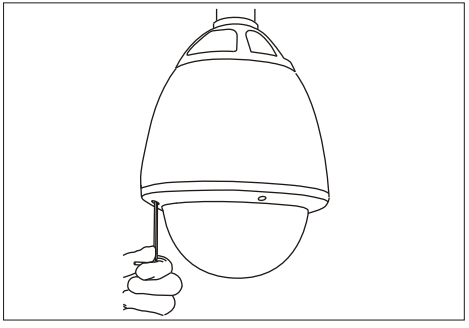
10. Fix the dome camera with the 3 screws using the screw driver included



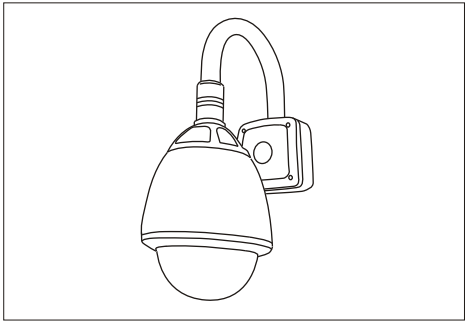
11. After connecting all the cables (Refer to the ACB connection chart), fix the box cover using the screws



8. Fasten the box cover.

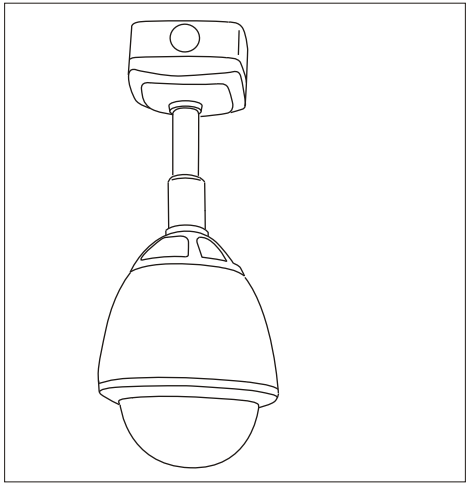


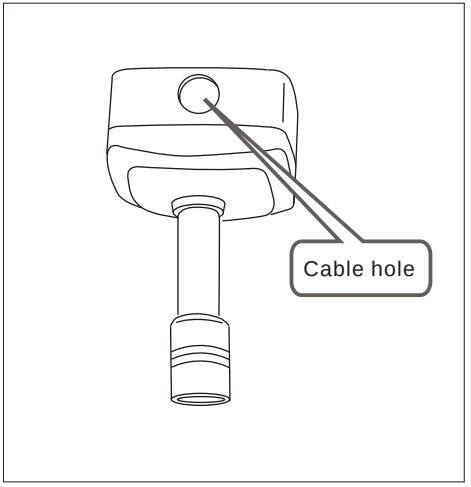
13. Fasten the screws to fix the dome cover.

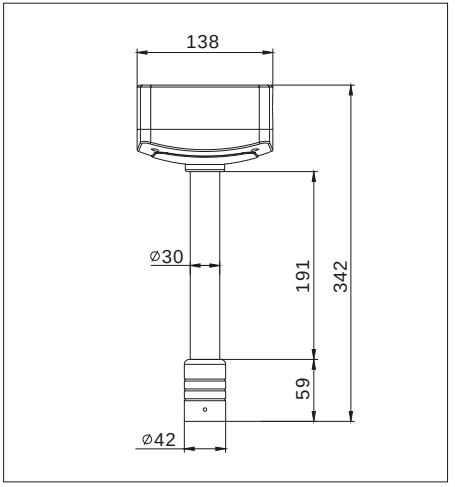


14. Finish the installation.

5.2 Pendent mount







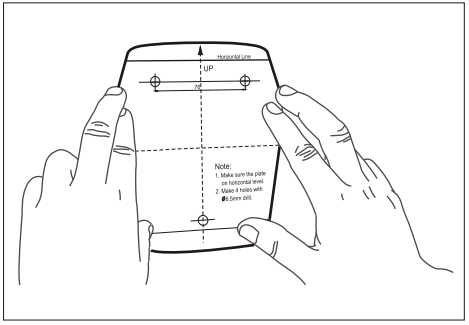
Pendent Bracke Dimension

Notice

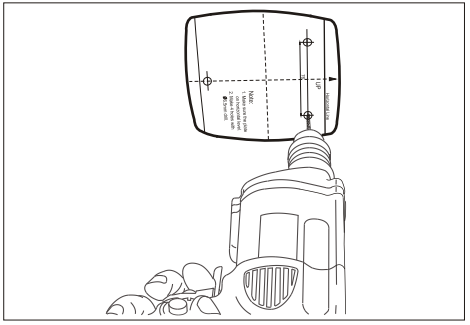
The position must firm and endure more than 5 time weight of camera and mount bracket, otherwise the quiver picture will be caused.

Notice

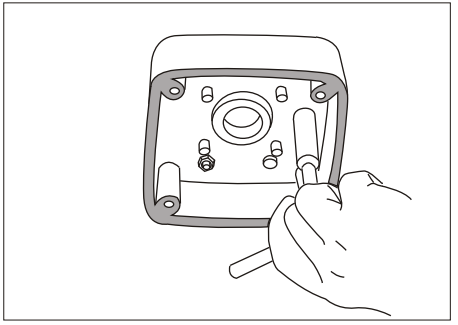
Before install, please wear attached white glove to avoid blur or pull dome cover so as to effect quality of picture.



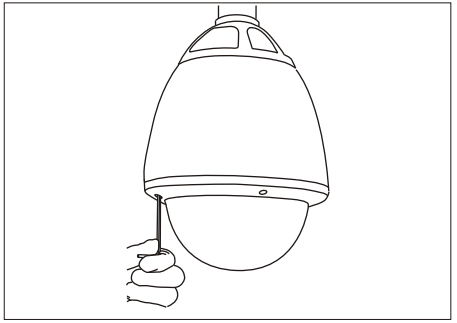
1. Stick the Position-Paster onto the wall



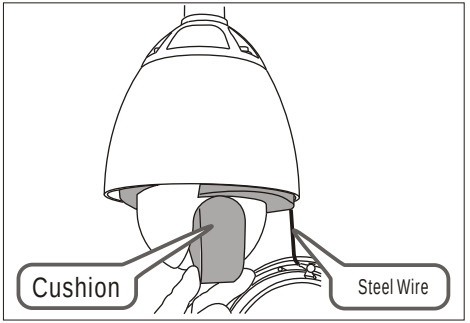
2.Drill the mounting holes



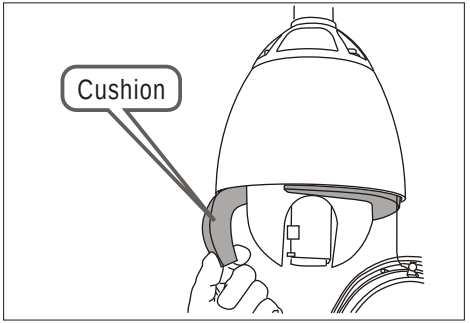
3. Fix the bracket mounting base onto the surface of the ceiling.



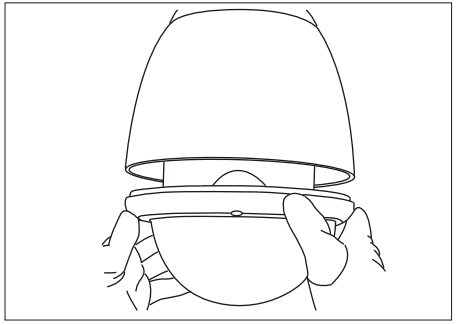
4. Wearing the glove, take off the dome cover



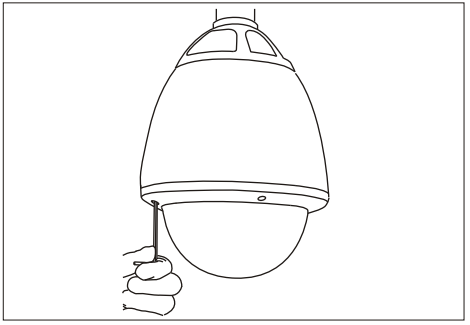
5. Take the camera protection cushion out of the camera.



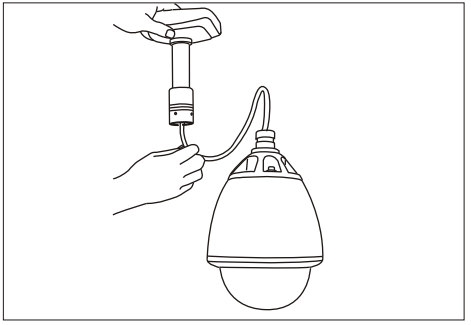
6. Take off the balck shield and set up camera ID and protocol.



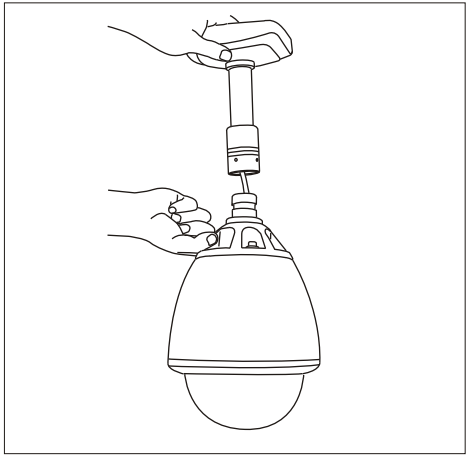
7. Recover the black shield and the dome cover.



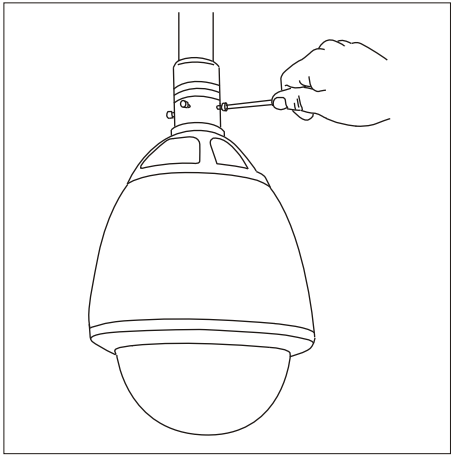
8. Fasten the screws to fix the dome cover.



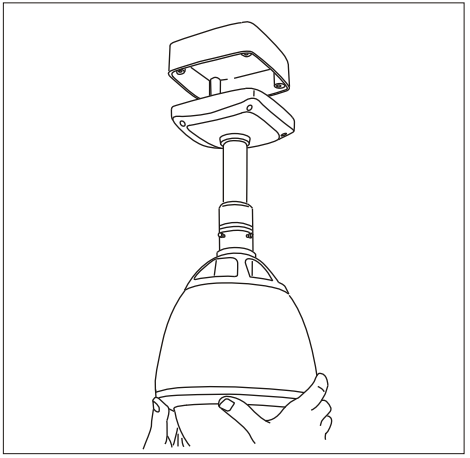
9. Pass the RJ45 cable through the bracket.



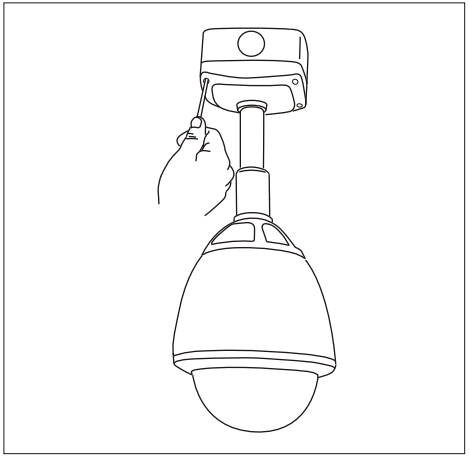
10. Put the camera into the wall mount bracket



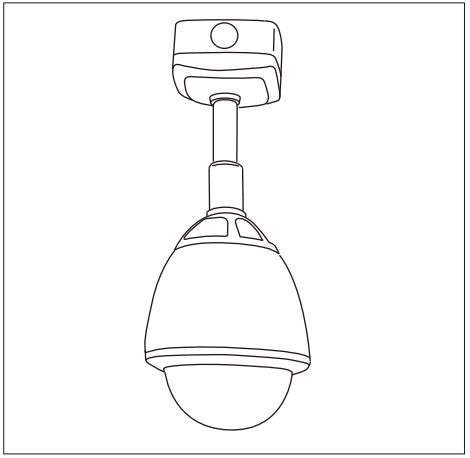
11.Fix the dome camera with the 3 screws using the screw driver included



12.After connecting all the cables (Refer to the ACB connection chart), fix the box cover using the screws

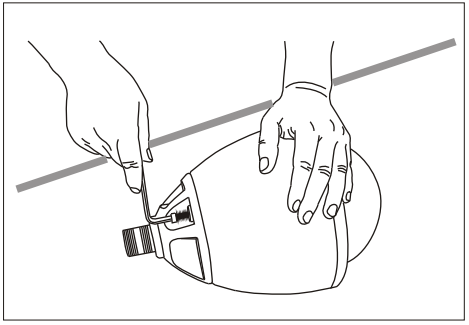


13. Fasten the box cover.

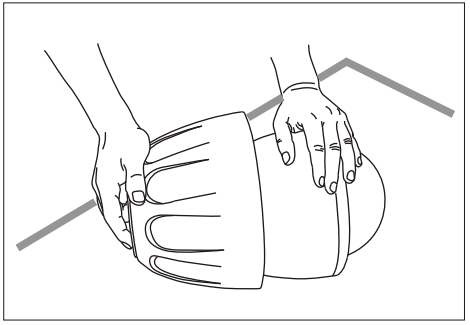


14. Finish the installation.

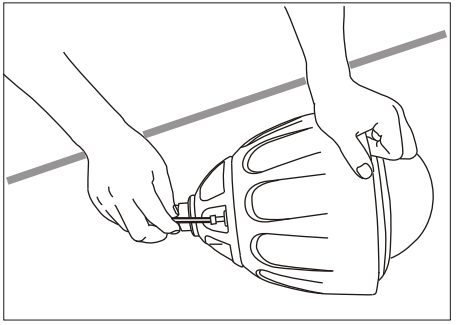
5.4 Outdoor Sunshield Installation



1.Take off the upper cover of the dome housing



2. Put the sunshield over the dome housing.



3. Make sure the three screw holes are in same position

CHAPTER 6: Speed Dome Control by Keyboard

The various function of speed dome can be achieved by the keyboard compatible with the speed dome, Due to the different design of manufacturers, the operation may be different. Please refer to the user manual supplied by the manufacturers. (Advice: Using our keyboard to get full functions of the speed dome.)

6.1. Select Address of PTZ Dome Camera [N] + [CAM]
Description: N = No. of camera from 1 to 255
Function: Select the address of the camera to be controlled.
For Example: To Select Camera number 2, just follow below operation: [2] + [CAM]
And you can also press -1 key to choose previous camera or press+1 key to select next camera.

6.2. Pan/tilt and Lens control:
Select a specific camera, move the joystick to control PTZ dome's Pan/tilt moving and press "I+" "I-" "F+" "F-" "Z+" "Z-" to control the lens.

6.3. To set preset position[F1]+[8] +[N] +[PRE]
Description: N =No. of preset position from 1 to 128.
Function: Store current position and refer it as No. N preset position.
For Example: To set Camera number 2's preset 2, just follow below operation: Select Camera number 2 and move it to your desired position and zoom ratio as below:
[2]+ [CAM] then [F1]+[8]+[2] +[PRE]

6.4. Call the Preset position[N] +[CALL]
Description:N =No. of preset position from 1 to 128.
Function: Move the camera to the position of No. N preset position.
For Example: To call Camera number 2's preset 2, just follow below operation: [2]+ [CAM] then [2] +[CALL]

6.5. Below operation is for our speed dome camera only
1) OSD menu operation
[95] + [CALL] to enter into the OSD menu for speed dome camera setting, tilt your joystick UP or DOWN to select a menu item and use "F+" key to confirm or "F-" key to cancel.
2) Pattern
131-134 +[CALL] to run Pattern 1-4
Use OSD Menu to set or delete a Pattern.
3) Group
141-148 + [CALL] to run Group 1-8
Use OSD Menu to define or delete a Group.
4) Swing
151-158 + [CALL] to run a Swing
Use OSD Menu to define or delete a Swing,

.

* For more details about speed dome control, please refer to our Speed Dome Camera User Manual

CHAPTER 7: Speed Dome Control by OSD

Check Proceedings before Operation

Check the cable connection carefully before input power.

The camera ID of the controller must be identical to that of the target camera. The camera ID can be checked by reading DIP switches in the camera

If your controller supports multi-protocols, the protocol must be changed to match to that of the camera.

Since the operation method can be different for each controller available, refer to the manual for your controller if camera can not be controlled properly. Major operations of this manual are based on the standard Pelco Controller.

Since Preset 95 is reserved to start the OSD menu, this can not be used as regular Presets. Therefore, the description "Preset 1~128" always means excluding Preset 95 in this manual.

OSD Menu

Function: Using the OSD menu, Preset, Group and Alarm I/O function can be configured for each application.

Start Menu: After type the numeric key 95, press the swing pattem key to start OSD menu.

Preset

Function: Max. 127 positions can be stored as Preset position. 1--128 number can be designed on the screen menu beside 95 numeric key. The combination the preset key on keyboard and numeric key speedup the store and use of preset and realize the modification to the preset default by keyboard. (such as preset label blank,3 second dwell time, relay output closing.)

Setup Preset: Select the desired camera to adjust to the state of given position. First, press F1 key , then press 8 numeric key and input preset number, lastly, press RRE key.

Running Preset: Select the desired camera (if the camera on the screen, can be omitted.)First, input preset number(1-128), default number is 1, then press CALL key to run the corresponding preset.

Delete Preset: To delete Preset, use OSD menu.

Swing

Function: By using Swing function, we can make camera to move between 2 Preset positions repeatedly. Swing speed can be selected from 3 steps i.e. FAST, NORMAL and SLOW. The speed for FAST, NORMAL and SLOW mode is 60/sec, 30/sec and 15/sec respectively.

Set Swing: To set Swing, use OSD menu

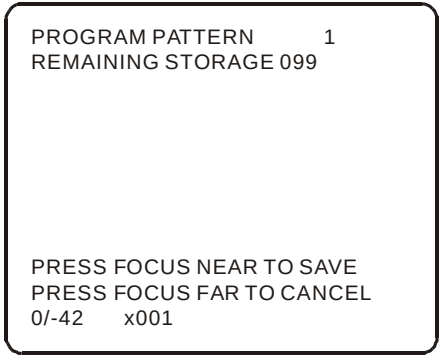
Run Swing: After you type a numeric key Swing No. + 10 (i.e. 11~18), press SAL key in the controller.

Delete Swing: To delete swing, use OSD menu.

Pattern

Function: Pattern enables us to save and play back the camera motions created by using tilting the joystick. Max. 4 Patterns can be used and can be recorded during max.1 min for a pattern.

Set Pattern: Pattern can be created by one of following two methods.
1 Using key of controller: [1~4]+SAL key.
After you type 1~4 numeric key, press SAL key for longer than 2 seconds to start Pattern recording.



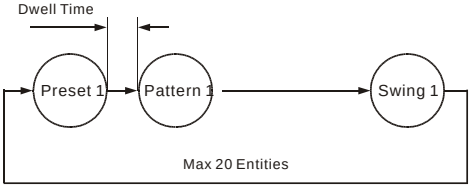
Move the camera using Joystick to make your pattern.
Maximum recording time is 1 min. The time remained will be displayed by % on the screen.
To save the recording, press F+ key and to cancel the recording, press F- key. 2. Using OSD Menu: See the section "How to use OSD Menu".

Run Pattern: After you type 1 ~ 4 numeric key, press SAL key shortly.

Delete Pattern: Use OSD menu to delete a Pattern.

Group

Function: The group function allows running sequence of Presets, Pattern and/or Swings. Max 8 group can be stored. Each group can have max 20 action entities which can be preset, pattern or swing. The group can be created, modified and deleted using menu. Also, dwell time defined in the preset menu is effective when group is running.



Set Group: Use OSD Menu to create a Group.

Run Group: After you type a numeric key 20+Group No. (i.e. 21~28), press SAL key in the controller.
Ex) If group number is 5, press 25 + SAL key

Delete Group: Use OSD menu to delete a Group.

Other Functions

Power Up Action: This function enables to resume the last action executed before power down. Most of actions such as Preset, Pattern, Swing and Group are available for this function but Jog actons are not available to resume.

Auto Flip 180° If tilt angle exceeds 90, Pan is automatically turned to opposite direction (+180) to track the target continuously.

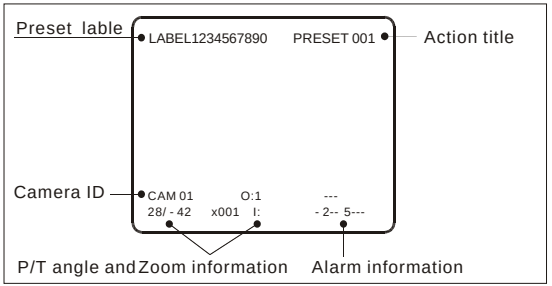
Park Action : This function enables to locate the camera to specific position automatically if operator doesn't operate the controller for a while. The Park Time can be defined as a interval from 1 min. to 4 hours.

Origin Position: Using this function, the Origin position can be defined by operator. The Pan angle display will be changed if you change the origin position. It is noted that tilt angle is not affected by this function.

Alarm I/O: If you use optional Alarm I/O module, you can take advantage of 8 alarm input and 4 alarm output. If an external sensor is activated, camera can be set to move to corresponding preset position. Also, the output relay can be matched to some specific preset positions to do counteractions such as turning on the light or sounding the alarm. It is noted that the latest alarm input is effective if multiple sensors are activated.

Privacy Mask: To protect privacy, max. 8 white masks can be created on the arbitrary position to hide objects such as windows, shops or private house.

OSD Display of Main Screen



P/T/Z Information:
Current Pan/Tilt angle in degree and zoom magnification.

Camera ID: Current Camera ID

Action Title: Followings are possible Action Titles and their meaning.
"SPRESETxxx ": When Preset xxx is stored
"PRESETxxx ": When camera reach to Preset xxx
"UNDEFINED": When undefined Preset number is called to move
"SWING -xxx ": When Swing x is in action

Preset Label: The Label stored for specific Preset.

Alarm Information: This information shows current state of Alarm I/O. The character 'O' of first line stands for Output and 'I' of second line means Input. If an I/O point is ON state it will show a number corresponding to each point. If an I/O point is OFF state, '-' will be displayed.

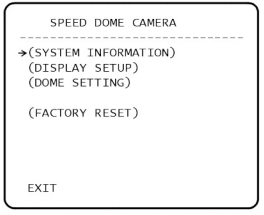
Ex) Point 1, 7 of inputs are ON and 2, 4 of outputs are ON state. OSD will show

O: - 2- 4
I : 1- - - - - 7-

General Rules of Key Operation for Menu

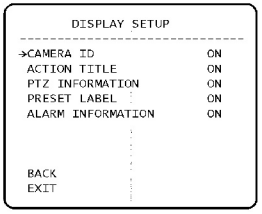
the menu items surrounded with ( ) always has its sub menu.
For all menu level, to go into sub menu, press F+ key, to go up to upper menu, press F---- key. If you learn by heart a rule that F£ « key is always similar to Enter key and F--- key is always Esc key, many other functions of these keys will be easy to understand.
To move from items to item in the menu, use joystick in the Up/Down or Left/Right.
If you want to confirm a menu item, press F+ key.
To change a value of an item, use Up/Down of the joystick in the controller.
After you change a value, press F+ key to save it or press F ---- key to cancel it

Main Menu



SPEED DOME CAMERA	high speed dome camera
SYSTEM INFORMATION	display system information
DISPLAY SETUP	display information switch
DOME SETTING	define multi-function of camera
FACTORY RESET	resume factory default position

Display Setup

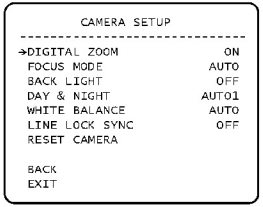


This menu defines Enable/Disable of OSD display on Main Screen. If an item is set to be AUTO, the item is displayed only when the value of it is changed.

DISPLAY SETUP

CAMERA ID	[ON/OFF]
ACTION TITLE	[ON/OFF/AUTO]
PTZ INFORMATION	[ON/OFF/AUTO]
PRESET LABEL	[ON/OFF/AUTO]
ALARM INFORMATION	[ON/OFF]

CAMERA SETUP



Setup the general functions of zoom camera module.

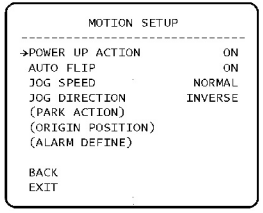
CAMERA SETUP

DIGITAL ZOOM	[ON/OFF]
FOCUS MODE	[AUTO/MANUAL]
BACK LIGHT	[ON/OFF]
DAY & NIGHT	[AUTO1/AUTO2/DAY/NIGHT]

By tilting joystick to Up/Down, The mode can be selected. It is noted that the mode is effective simultaneously and Auto1 and Auto2 is about same.

WHITE BALANCE	[AUTO/SPECIAL/INDOOR/OUTDOOR/MANUAL]
LINE LOCK SYNC	[ON/OFF] If Line lock sync is ON, video signal is synchronized with AC power. Video can be fluctuated after setting is changed.
RESET CAMERA	Initialize the zoom camera module

P/T Motion Setup



Setup the general functions of Pan/Tilt motions.

MOTION SETUP

POWER UP ACTION [ON/OFF]

AUTO FLIP [ON/OFF]

JOG SPEED [FAST/NORMAL/SLOW]

The maximum jog speed is listed below when zoom is x1. As zoom magnification is increased, the speed will be decreased to maintain equal controllability.

FAST	0° ~ 160° /sec
NORMAL	0° ~ 80° / sec
SLOW	0° ~ 40° / sec

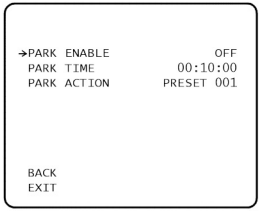
JOG DIRECTION [INVERSE/NORMAL]
If you set this to 'Inverse', the view in the screen is moving same direction with jog tilting. If 'Normal' is selected, the view in the screen is moving reversely.

PARK ACTION Activate Park function.

ORIGIN POSITION Redefine particular pan position to Origin position.

ALARM DEFINE Match the Alarm sensor input to one of current Preset positions.

Park Action Setup



This function enables to locate the camera to specific position automatically if operator doesn't operate the controller for a while. The Park Time can be defined as an interval from 1 min. to 4 hours.

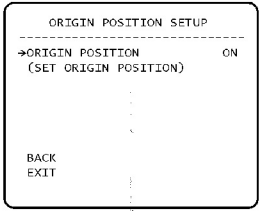
PARK ENABLE [ON/OFF]

PARK TIME [1 min ~ 4 hours]

The time is displayed with "hh:mm:ss" format and you can change this by 1 min unit.

PARK ACTION [Preset 1~128]

Origin Position Setup



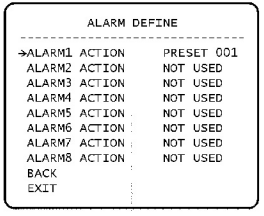
You can redefine particular pan position to Origin position.

ORIGIN POSITION SETUP

ORIGIN POSITION [ON/OFF]

SET ORIGIN POSITION If you choose this menu, you can move pan position by joystick and redefine Origin.

Alarm Input Setup



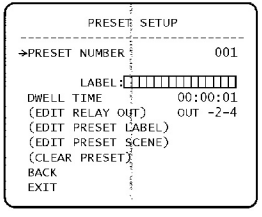
Match the Alarm sensor input to one of Preset positions. If an external sensor is activated, camera will move to corresponding preset position when this item is predefined.

ALARM DEFINE

ALARM ACTION [NOT USED, PRESET 1～128]

Assign counteraction Preset position to each Alarm input.

Preset Setup



Preset Number [1~128]
Select a preset number to create or modify. If the current Preset number is predefined, camera will move to stored position and zoom automatically to check them. Otherwise, "UNDEFINED" will be displayed.

Dwell Time [1sec ~ 4min]
The time is displayed with "hh:mm:ss" format.

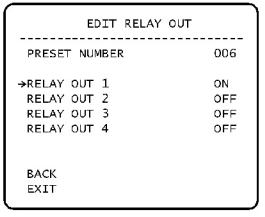
Edit Relay Out Define Relay output. If an Output relay is ON state it will show a number corresponding to each point. Otherwise, '-' will be displayed.

Edit Preset Label Edit the Label for a specific Preset position. A Label can be named with max 15 characters. This label is automatically displayed on the upper left corner of the screen whenever you move to the corresponding preset position.

Edit Preset Scene Redefine current Preset scene position (i.e. PTZ).

Clear Preset Delete current Preset data.

Relay Output Setup

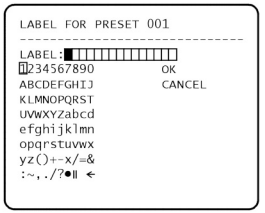


EDIT RELAY OUT

PRESET NUMBER [006]
[Ex:number006 is one of 1---128]

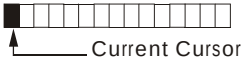
RELAY OUT [ON/OFF]
Set 4 relay of the current preset output position.

Edit Preset Label



LABEL FOR PRESET 001

The inverted cursor of LABEL represents current position to be selected from the set of characters bellow. If you choose a character, the cursor will move to the right.

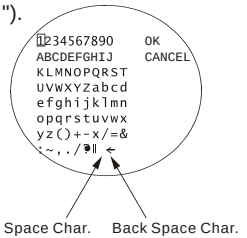


Using Left / Right / Up / Down of joystick, move to an appropriate character from the Character set. To choose that character, press the F+ key.

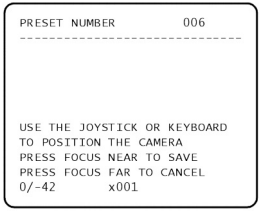
If you want to use blank, choose Space character (" "). If you want to delete a character before, use back space character ("←").

If you complete the Label editing, move cursor to "OK" and press F+ key to save completed label.

To abort current change, move cursor to "Cancel" and press F+ key.



Edit Preset Scene

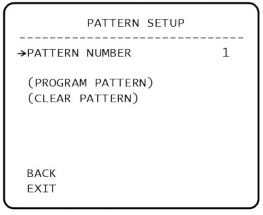

PRESET NUMBER 006
USE THE JOYSTICK OR KEYBOARD
TO POSITION THE CAMERA
PRESS FOCUS NEAR TO SAVE
PRESS FOCUS FAR TO CANCEL
0/-42 x001

PRESET NUMBER [006]

Preset Number 【Ex:number006 is one of 1～128】

1. Using Joystick, move camera to desired position and the multiple is suitable for zoom lens.
2. By pressing F+key, save current PTZ data.
3. Press F- key to cancel PTZ data.

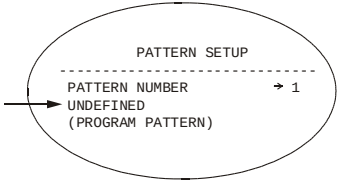
Pattern Setup



PATTERN SETUP

PATTERN NUMBER 【1～4】

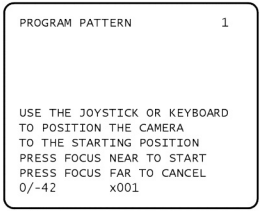
Select the pattern number to edit. If the pattern selected does not existed, "UNDEFINED" will be displayed as shown bellow.



PROGRAM PATTERN If you choose this, you will go down to sub menu to record a pattern.

CLEAR PATTERN [ON/OFF]

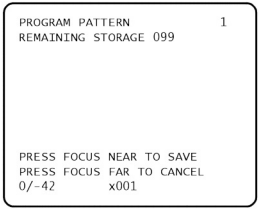
Record Pattern


PROGRAM PATTERN 1
USE THE JOYSTICK OR KEYBOARD
TO POSITION THE CAMERA
TO THE STARTING POSITION
PRESS FOCUS NEAR TO START
PRESS FOCUS FAR TO CANCEL
0/-42 x001

PROGRAM PATTERN [1]

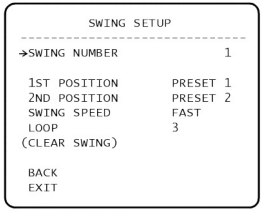
【Ex. Number1,ie.pattern number selected in sup-menu】

REMAINING STORAGE 99£¥time remained means 99% of running pattern time.



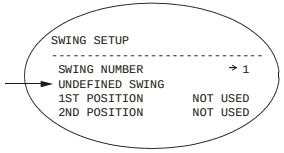
1. By using Joystick, move to start position with appropriate zoom. To start pattern recording, press F+ key. To exit this menu, press F- key.
2. Maximum recording time is 1 min. The time remained will be displayed by % on the screen.
3. While you are moving and zooming the camera, the trajectory controlled by joystick will be recorded at the same time.
4. If you press F+ key, the data will be saved and this menu is exited. If you press F- key, the date recorded up to now will be abandoned and this menu is exited.

Swing Setup



SWING NUMBER 【1～8】

Select Swing number to create or modify. If thecurrent Swing number is not defined, as shown bellow, "UNDEFINED SWING" is displayed above the 1st Position and 2nd Position.

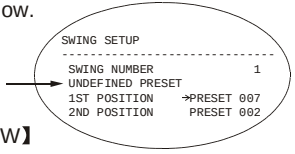


The swing speeds is as shown bellow.

1ST POSITION 【 1st position can be one of 1～128 number】

2ND POSITION 【2nd position is one of 1～128 number settled besides 1st position.】

Define 2 Preset positions for Swing motion. If you assign undefined Preset to one of these positions, "UNDEFINED PRESET" will be displayed as shown bellow.



SWING SPEED 【FAST/NORMAL/SLOW】

Set the Swing speed level. The swing Speeds are as shown below.

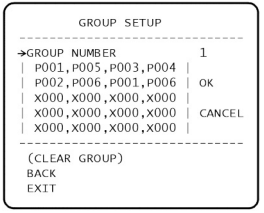
FAST	60° /sec
NORMAL	30° / sec
SLOW	15° / sec

LOOP 【1～3】

This number represents how many swing motion will be repeated when swing is executed with in a Group. However, Swing motion will be repeated forever if you execute Swing function.

CLEAR SWING Delete current Swing data.

Group Setup



GROUP SETUP

GROUP NUMBER 【1～8】

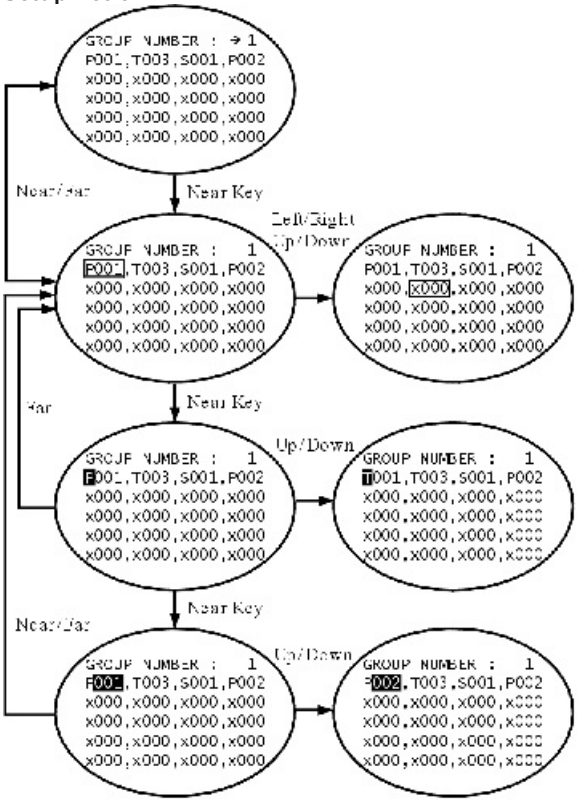
ACTION [x000, P1～P128, S1～S8, T1～T4]

x000 means no action is selected. If you assign Preset, it will shows P1 ~ P128. If you assign Swing, S1~S8 will be displayed. If you assign Pattern, T1 ~ T4 will be displayed. If no action is defined, it will be skipped when Group function is executed.

CLEAR GROUP

Delete all of 20 Action entities. All entities will become x000 if you execute this.

Setup Action



1.Select group number desired using joystick, then press F+ key to modified

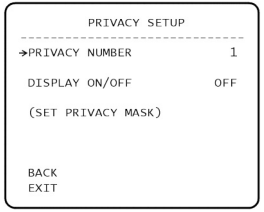
2. Using Joystick, move to an entity to be modified. Then press F+ key.

3. Using joystick, select appropriate Action (x, P, S or T). Then press F+ key. If you press F- key, the value changed will be ignored and cursor will be jump to upper level.i.

4. Using joystick key, select appropriate Action (x, P, S or T). Then press F+ key. If you press F- key, the value changed will be ignored and cursor will be jump to upper level.

5. If modification is completed, move to "OK" position in the right of the map and press F+ key to finish.

Privacy Zone Mask Setup



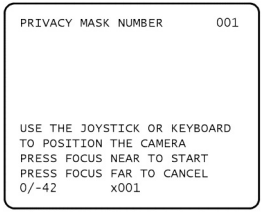
PRIVACY SETUP

PRIVACY NUMBER 【1～8】

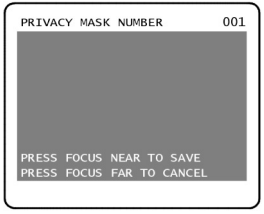
DISPLAY ON/OFF 【ON/OFF】
Enable or disable the display of Privacy Zone Masking.

SET PRIVACY MASK Go down to Sub menu to program Privacy Zone.

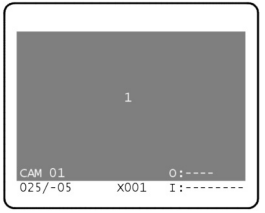
Privacy Zone position Setup


PRIVACY MASK NUMBER 001
USE THE JOYSTICK OR KEYBOARD
TO POSITION THE CAMERA
PRESS FOCUS NEAR TO START
PRESS FOCUS FAR TO CANCEL
0/-42 x001

1. By using joystick, move to the scene to hide with mask. Adjust the zoom ratio properly since the mask will be created as full screen size. If you finished the masking, press F+ key to show the mask on the screen or press F- key to cancel.



2. After Privacy Mask is displayed, press F+ key to save or press F- key to abandon.



3. After you exit the Privacy Mask menu, you will see the mask whenever you move to the location privacy zone assigned. The number in the center of the mask represents Privacy mask number. Max. 8 zones can be located wherever needed to protect privacy. It is noted that some mismatch or misalignment can be aroused since OSD display is slow and its minimum resolution is limited to a character size.

CHAPTER 8: Trouble Shooting Guide

Defect	Cause	Solution
No action,image when connect power.	Cable connectiong wrong	Reconnect
	Power damage	Change
	Power connection unfixed	Fix
Unable to control P/T	Dome ID,Baud rate setup wrong	Reset dome ID,Baud rate
	Protocol wrong	Change
	RS485 reverse or short	Check Rs485 control cable connection
	Too many Domes on Rs485 Cable	Use Rs485 Distributor
	Wrong Rs485 Resistor Setting	Fix
	Bad Quality Rs485 Cable	Change
Initializing Failed	Pan Direction photoelectric Switch Fault	Fix
	Tilt Direction Switch Fault	Fix
	Power deficiency	Select suitable power,place power near camera or thicker cable.
	Wrong DIP Setting	Modify
Image fluctuation	Video Cable connection wrong	Reconnect
	Power deficiency	Select suitable power,place power near camera or thicker cable.
	Line Lock Wrong Setting	Change
Image dimness	Focus at manual Mode	Set dome or run a preset
	Housing dirty	Clean housing
No Video Signal	Wrong Video Connection	Fix
	Zoom Module FCC Cable Loose	Pull Out and Plug in
	Zoom Module Fault	Change

Service- Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personal.

CHAPTER 9:ACCESSORIES LIST

Indoor speed dome accessroies list

NO	Item	Picture	Specification	Unit	Quantity
1	Alarm and Connection Box			pcs	1
2	Rj45 Cable		L=800mm	pcs	1
3	Ceiling Mount Plate			pcs	1
4	User Manual			pcs	1
5	Glove			pcs	1
6	Screw		∅6mm	pcs	4
Option					
1	Wall Bracket			pcs	1
2	Pendent Bracket			pcs	2

Outdoor speed dome accessroies list

NO	Item	Picture	Specification	单位	Quantity
1	Alarm Board			pcs	1
2	Screw Driver		3mm	pcs	1
3	User Manual			pcs	1
4	Glove			pcs	1
5	Paster			pcs	1
6	Screw Driver		∅10mm	pcs	1
7	Screw		∅6mm	pcs	3
8	Screw		∅6mm	pcs	4
9	Wall Bracket			pcs	1
Option					
1	Pendent Bracket			pcs	
2	Sunshield			pcs	